

UNIVERSITY PARTNER



Project and Professionalism

(6CS020)

Professionalism Report

“Auto Nepal”

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1. Critical Evaluation

1.1 Objective of this chapter

The overall progress of the Final Year Project ensures to have been prepared with valid and reliable research from the initial stages to the completed stages which is the major objective of this chapter.

1.2 Evaluation Overview

The entire report believes to have been successfully accomplished being based on the aims and objectives proposed in the initial stages of development. The developed system guarantees to have strengths rather than weaknesses. As this has been carried out through effective research over the internet and is based on the requirement provided by the client. The developed system has been kept live with its appropriate domain name. Moreover, cPanel is handover to client who is now responsible to maintain contents in the web application. The initial objectives needed hard work and effective research in order to meet the requirement of the client as well. The major initial objectives were:

- To develop a secured, dynamic and user-friendly Web Application on Auto Nepal that allows customers to sell their cars and opt to buy new as well as used cars making an appointment with no delay.
- To produce a planned database which contains all the useful contents of the web application including the Content Management System (CMS)?
- To develop a system in Laravel Framework.
- To focus on effective User Interface (UI) following a Yellow-Black theme.
- To research on similar types of projects, achieve positive and negative critical analysis.

The procedures carried out in order to obtain these objectives were in depth research and analysis, regular client meeting and follow ups, splitting up system into increments and developing the smaller elements to obtain an operational product with effective testing. Additive features were treated as objectives and were given priority to be developed. The system now has been completed in a proper manner

1.3. Issues

1.3.1. Legal Issues

The system is uploaded to a specific domain name, this symbolizes the system being

legally correct. Moreover, the system believes to have contents in websites which has the ownership of client and its company. The system believes to have been started and ended within a time period or a contract. The system promises to have not violated any norms and rules during its development phases. The genuine and permitted links are made available in website which symbolizes the system to be legally correct.

The tools used in design and development phases to create the system from various platforms does not violate any intellectual property, nor does it imply to any one's idea or concept. All the software used were the community version, so the system believes to have been legally correct. Moreover, the system promises to not have any offensive comments or information on anyone.

1.3.1.1 Intellectual Property Protection

You ought to likewise think about finding a way to ensure your protected innovation against contenders. The 3 primary methods of achieving this are by enlisting brand names, copyrights, and licenses.

Brand names can secure things like your application name, organization name or logo

Copyrights would apply to any composed or aesthetic works, including the source code, substance, and plans

Licenses are to secure cycles and creations that are new and non-self-evident

These types of IP security are significant and valuable for various reasons, contingent upon the idea of your applications and your business objectives. It's insightful to counsel an attorney prior to getting excessively profound into any of these territories of the law, since it can get interesting.

Here is some more accommodating data about securing your licensed innovation on the off chance that you'd prefer to learn particulars about brand names, copyrights, and licenses. (The national transport management act, 1969)

1.3.1.2 “Out-of-Market” Consumer Benefits

Sometimes due to out-of-stock client will not be able to buy car. Sometimes due to failure the admin can't figure out what car is unavailable but the information of car is still on the web. So, this issue may arise while buying the car. This is the rare issue to be arise but sometimes admin just forget to put it due to other work to be done or sometimes company fails to say admin about it and the information goes wrong. (allio, 2019)

1.3.2. Ethical Issues

Ethics are a lot of principles overseeing the direction of individuals from a profession. Ethics build up essential qualities for mindful activities and practices inside an expert network. In spite of the fact that there might be no discipline for abusing ethical principles, a few practices, for example, spamming and sending viruses are being composed or will be composed into law.

Examples of ethical conduct for Web developers incorporate the accompanying:

- One must not send spontaneous bulk emails or spam.
- One must not purchase domain names that one doesn't intend to the user, a practice referral as domain squatting or cybersquatting.
- One must not purposely spread malignant program code, for example, viruses or worms.
- One must not go along chain email messages, particularly those that infer dangers.

Moreover, the project promises not to give rise to any sorts of ethical issues

1.3.2.1 Beyond Crash-Avoidance

Numerous peruses may protest immediately that the problem above, just as others that follow, won't ever happen with self-ruling vehicles. It very well might be proposed that future vehicles need not stand up to hard moral decisions, that basically halting the vehicle or giving control back to the human administrator is the simple way around morals. However, I will fight here that slowing down and giving up control won't generally be sufficient. Those arrangements might be the best we have today, however whenever computerized vehicles are to actually work all the more comprehensively outside of restricted interstate conditions, they will require more reaction choices.

Sometimes clients open the page but sometimes due to heavy use the system may crash. Due to this the page won't open and client have to wait for a long as the system needs to be fix. (Lin, 2020)

1.3.2.2 License authority

According to section 77 without license people can't drive the vechiel. While making the application we don't know or we have no authority to ask them about the license. So, the issue may appear here like when the client buys the car from our web application if she/he commit any sort of act then the law says the company gets the penalty as they sold the car without the information of the client. (Motor vechiles transport management act, 1993)

1.3.3 Social issues

Dr. Heidi Forbes Öste (2011) outlined social as “having to try to to with individuals, how they communicate, the tools they use, what results from their interaction, and impact from engagement”. As sensible phones are wide used nowadays because the major tool for interaction and information passing, developing associate app for emergency evacuation for the sensible phone serves as one of the foremost effective ways that to urge notified in cases of life and death state of affairs.

Social influence and behavior of on-line communities and team’s analysis had gained momentum with the recognition of net as a medium of social interactions. These studies on the opposite hand had targeted on communication factors and had mostly unheeded the influence of social ties on program expertise (Motor vechiles transport management act, 1993)

1.3.3.1 Browsing Problem

It is difficult to make app for both android and apple. So sometimes while making app client get browsing problem. So, in that case it is difficult to open our page and user have issue. As sometimes due to network the page won’t be able to load, so the client find difficult again to reload. Sometimes people have visibility problem so they find different running from browser. (classification of mortor vechlies act, 2018)

1.3.3.2 Focus on making pages excellence for all users

Your app or game will compete for customer mindshare with some of the best commercial products in the market. Quality issues such as low app stability, high battery usage, and cutting corners on user experience and design will significantly reduce your app’s ability to create impact because target users will be more likely to churn and find alternate solutions. The website should meet the client target if they are making for the company. If the pages don’t include the client’s requirement then it create the issue and the company gets destroyed. (Min, 2019)

1.3.4 Security issues

In within style and client ability, web application security is usually dismissed. notwithstanding, security should be considered all through the product framework advancement life cycle, especially once the apparatus is tending to the significant information like installment subtleties, contact information, and classified information. There zone unit a few things to think about once it includes web application security like disavowal of administration assaults, the insurance of client information, data flawed, unapproved admittance to limited components of the site, and so forth some of the wellbeing dangers territory unit Cross-Site Scripting, Phishing, Cross-Site Request Forgery, Shell Injection, Session Hijacking, SQL Injection, Buffer Overflow, and so on the site should be critically coded to be protected against these security contemplations.

Web advancement might be purposely inconvenient on the grounds that it includes accomplishing an eventual outcome that should be satisfying, forms the total and is actually as yet with sound visuals. (Act of security, 1998)

1.3.4.1 Broken Authentication

Attackers have access to many uncountable valid username and parole combos for certification stuffing, default body account lists, automatic brute force, and lexicon attack tools. Session management attacks area unit well understood, notably in respect to valid session tokens. When the system is weak then people try to break the authority and the system get crashed. So due to this they receive every data, so in this also there is a case. (Hunt, n.d.)

Credential stuffing and brute forcing passwords area unit the foremost usually seen attacks of this kind. Verizon's 2017 information Breach Investigations Report calculable that eighty-one of hacking-related breaches created use of taken or weak passwords. additionally, as giving attackers access to users' personal information, in most cases a breach will expose additional passwords, particularly if keep while not hashing or different security. (web, 2018)

1.3.4.2 Ensure secure communications

Web Development Company routinely imparts its product applications with different frameworks like workers, cloud administrations, and different applications. When discussing an application with these frameworks guarantee that the application gets private information, regardless of whether corporate firewall assurance has an eye over the discussion. The application should utilize the most recent most secure advancements like Secure Sockets Layer (SSL) and Transport Layer Security (TLS) convention. Alongside this, the designers ought to ensure all APIs that the application employments. (CIS, 2003)

2.Furture Planning

The developed system meets up with all the requirements provided by client. Moreover, it addresses to have all functionality and features mentioned in Project Proposal and SRS. The system has been developed in accordance with Gantt Charts, meeting logs, and effective interview sessions. The client has been pleased and totally satisfied with the development of the system. The client was so excited that they bought an appropriate domain name in a fraction of time for the system. They have also planned to pay me amount annually for the maintenance of the developed system. I still have days remaining in my contract with client, during these periods I would plan and improve more functionality in the developed system. The scope of Web Development in context of Nepal is pretty demanding, hopefully I will be involved in outsourcing projects in my free time.

Once I handover the developed system to the client, I am planning to get involved in other Laravel projects in near future.

3. Challenges faced

The volume of developed system was large enough. I faced challenges during the coding phases of development. Moreover, they were overcome after consulting various tutorials and documentation. The major challenges are listed below:

- Adding Multiple Images in the Backend section of development.
- Implementing Cart feature for Comparing Cars in the developed system.
- Handling the slug errors for Cars and Blogs page.
- Email execution as confirmation message to user.
- Various mathematical errors were encountered while creating formula for resale value calculation.

JavaScript errors that occurred were solved after researching online tutorials

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